25X1 SECRET
CENTRAL INTELLICENCE AGENCY INFORMATION REPORT 25X1 3 Apr 52 DATE DISTR. COUNTRY : USSR Installation Description - State Research Plant #2 (Zavod #2), Kuibyshev, USSR NO. OF PAGES SUBJECT : NO. OF ENCLS. 3 PLACE (LISTED BELOW) ACQUIRED: 25X1 SUPPLEMENT TO ACQUIRED REPORT NO. 25X1 DATE OF INFORMATION THIS IS UNEVALUATED INFORMATION 25X Site Layout /Enclosure (A)7 1. Point 1 New Test Stand Building (a) The new test stand building was to house three units. Construction of this building was begun in 1946, but it was still not in operation when I left in September 1950. The building was made of brick, two stories high, and had a flat roof and an L-shaped test stand tower. It contained 25X1 general test and assembly rooms and offices for measurement personnel. 25X1 Temporary Test Stand Point 2 (b) Built in 1946: a wooden structure, 20x10x8 m, which had a flat roof, covered with tarpaper. Between 20-30 workers and engineers worked one shift per day. 25X1 25X1 SECRET DESTREBUTION

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(c)	Point 3	Design and Construction Office	
•		Attached is a sketch of the office building in	
		which I worked Enclosure (B). The building was of brick construction, 40x15x15 m, three stories high, and with a slanted roof. Approximately 300-350 Soviet and German employees worked there, one shift per day.	
irou	nd Floor		
	Point 1	House admiristration and paper storage room. The administrator was a former Soviet Major.	
	Point 2	Drafting room. Soviet girls worked here; the work consisted primarily of copying original drawings.	
	Point 3	Drawing office. Bocklets and perspective designs of units for non-technicians were made by four German employees in this office.	
	Point 4	25X	1
	Point 5 and Point 6	Blueprint office. Female Soviet employees worked here, under the supervision of a German engineer, Mr Kercher.	
	Point 7	Design archive for non-secret material. Six people worked in this archive; two German specialists, two German and two Soviet girls.	
	Point 8	Secret archive for reports and designs. Only Soviets (six) worked in the secret archive.	
	Point 9	A secret typing pool in which only Soviets were employed.	
	Point 10	Technical library; two Soviets worked here.	
	Point 11 and Point 12	Eight to ten German engineers, under the direction	
	Point 13	Office of the Soviet manager of the test stand department, Mr Sergejeff. (Mr Sergejeff supervised the personnel of the test stand design and	
	25X1	experiment department.)	
	Point 14		
	Point 15	This office housed the test stand design personnel.	
	25X1 25X1	Two Soviets and 10 Germans worked here; of these,  Mr Pfluegl, Domhoefer,  Watzke, and Glueck.	
	Point 16	Office of Mr Treiber and his deputy. Mr Treiber was the German chief of the test stand design department.	

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First	Floor		
I	Point 17	Office of Mr <u>Deinhardt</u> , chief of the compressor department, and Mr <u>Cordes</u> , chief of the turbine	
	25X1	department, and Mr Cordes, enter of the turbine department.	
1	Point 18	Compressor department.	
	25X1	names of the following employees: (Soviet) -	
	25X1	The state of the s	
	e e	known as a collaborator and an informer for the NKVD.)	
1	Point 19	Design office, under the direction of Mr Brandner. Various German engineers from all the departments worked in this office temporarily.	
1	Point 20	Office of Mr. Brandner, chief of the construction department.	
]	Point 21	Miss <u>Poell</u> , Mr Brandner's secretary, worked in this office. She was formerly employed at Junkers/Dessau.	
1	Point 22	Time and attendance office. A Soviet female worked here, checking work attendance.	
1	Point 23	Office of Mr Semjonoff, a Soviet, who was Brandner's deputy.	_
1	Point 24		25X1
1	Point 25	German engineers were employed in the turbine department. names of the following	
25X1		employees: Mr <u>Karcher</u> , <u>Stadlmann</u> and <u>Dickel</u> . (Dickel was rumored to be a collaborator and an informer for the NKVD.)	
1	Point 26	Design control office in which Mr <u>Meyer</u> and four other Germans worked.	
1	Point 27	T L Starter department. Mr <u>Weckwerth</u> , chief of the department, Mr <u>Eberl</u> , seven Germans, and one Soviet worked here.	
1	Point 28	Office of Mr <u>Waldmann</u> , chief of the combustion chamber department and later the office of Mr <u>Gerlach</u> .	
1	Point 29	Combustion chamber department. Eight Germans and two Soviets were employed in this department.	
1	Point 30	A section of the transmission department was housed in this building. Mr Bockermann, Lange and two other dermans worked here.	
5X1 <sup>3</sup>	Point 31		

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- Point 32 Typing room for the Soviets.
- Foint 33 The office of Dr Scheibe's secretary.
- Point 34 Office of Dr Scheibe, manager of the research department.
- Point 35 Transmission department. Manager Mr Elze, Haag, Dingenthal (BMW), two Germans and one Soviet worked in this department.
- Point 36 Department for auxiliary equipment. Manager Meier, (perhaps spelled "Meyer"), worked here, as did approximately 15 other Germans and three or four Soviets.
- Point 37 Office of Mr <u>Singer</u> and Mr <u>Muecke</u>. The latter was the German deputy to Mr Brandner, of the construction department.

## Second Floor

- Point 38 Design department, in which Mr Horst Schneider, Esser and two Soviets worked.
- Point 39 Another section of the design department. Ten Germans and one Soviet were employed in this section. I remember Dr Heinrich (mathematics) and Mr Lorenzen (propeller).
- Point 40 Office of Dr Vogts, chief of the design department.
- Point 41 Testing department. Eight-ten German engineers and Mr Pohl, who was chief interpreter, worked in the testing department. Pohl wrote reports for the state test run and spoke fluent Russian, English and French.
- Point 42 Office of Mr Prestel, chief of the testing department.
- Point 43 Office of Mr Wagner, who was Mr Prestel's deputy; one other German also worked in this office.
- Point 44 Personnel for test runs under the direction of Mr Prestel were employed here; these included Mr Geuerlich (BMW) and four other Germans.
- Point 45 Another section for the personnel for test runs.

  Mr <u>Groebner</u>, <u>Ulmitz</u> (propeller testing) and four other Germans were employed here.
- Point 46 Communist party office under the direction of one Soviet employee.
- Point 47 Department of thermodynamics. Mr Kuemmel (deputy) and Mr Theo Mass worked in this office.

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- Point 48 Herman, and two Soviet engineers.
- Point 49 Office of Dr Schrlze, chief of the thermodynamics department.
- Office of Major Kwasoff, a Soviet. Kwasoff was deputy to Kusnizoff. Point 50
- Two Soviet secretaries worked in this office. Point 51
- Point 52 Office of plant manager Kusnizoff (a Soviet).
- Stress and vibration department. Six Germans Point 53 and two Soviets worked here.
- Point 54 Office of Dr Scheingrat and Schmitt, both chiefs of the stress and vibration department.

#### ·(a) Point 4 Administration Building

This was an annex to the main assembly shop, Point 7. It was a U-shaped building of brick construction, three stories high, with a flat roof. On the upper floors were the planning sections and offices for the plant director and the general plant administration (cashiers, book-keeping, payrolls, etc). Between 40-60 employees worked there, one shift per day. The two wings The two wings contained establishments such as barbershops, cleaning, small repairshops, etc. The center

25X1 part was directly connected with the main assembly shop by a staircase. 25X1L

### (e) Point 5 Carpentry Shop

This annex was of brick construction, with a flat roof, and was one story high. The carpentry shop contained wood working machinery, band and circular saws, wood drilling and milling machines. Windows, doors and coffins were also made there. Models for casting were made in a small partitioned section of the shop; this work was primarily done by German specialists. Approx1 Approx1mately ten workers were employed in the carpentry shop.

### (f) Point 6 Test Stand for Equipment and Combustion Chambers

This building was another annex to the main building and was one story high. It contained two test stands for compustion chambers, test stands for pumps and other auxiliary equipment, and a small workshop. This test stand was enlarged in 1950 in order to permit large-scale combustion chamber experiments and compressed air production in connection with the JUMO 022 unit. At this time a high wooden fence was built in the western corner of the test stand to block the view from outside.

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25X1 STORET (g) Point 7 Main Assembly Shop Enclosure (C)7 The entire building was a steel structure, approximately 30x50x15 m; the roof was covered with concrete plates with a tar layer.

between 350-400 employees worked at night. 25X1 a much smaller number worked at night. All lat work on the main construction parts of the JUMO All lathe 022 power plant was done here. Encloshows the division of the "inner hall" Enclosure (C) , the arrangement of the machinery and the distribution of the side rooms.7 25X1 Point 1 Skylights Point 2 Roof covering Point 3 Steel structure Point 4 Windows Point 5 Side rooms Point 6 Assembly of smaller parts Point 7 Blade fabrication Point 8 Lathes Point 9 Automatic welding machines Point 10 Staircase Main entrances Point 11 Point 12 Big lathes Point 13 Drilling, milling and large grinding machines Point 14 Fitting shop Point 15 Tool and die shop Point 16 Side entrance

# (h) Point 8 Sheet Metal Workshop

A wood construction, 20x10x6 m, one story high and having a flat roof. The shop contained several lathes, shears, presses, welding and stamping machines. A varying number of workers, between 20-50 worked in this workshop. (There was only one shift per day; night work was seldom scheduled.)

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			<b>-7.</b>
•	(1)	Point 9	Heating Plant
25X	(1		This plant was a brick structure; it had a sheet metal smokestack, approximately 20-m high.
25X	.1		produced steam for the heating of all of the main buildings; the heat was conducted through pipes buried two-three meters underground.
	(1)	Point 10	Askania Section
25X 25X	-		A brick building, two stories high. The work- shops were on the ground floor.
	(k)	Point 11	Metallurgy Building
•••			The metallurgy building was of brick construction, two stories high and had a flat roof. A watch-tower for a fire guard was built onto the roof; guards were stationed at this tower day and night.
	(1 <b>)</b>	Point 12	Entrance and Guard House
ș. · · ·	; ::		A wooden building, 15x8x5 m, one story high and which had a flat roof. During the day, approximately 20 guards were on duty throughout the entire plant. One commandant and four guards were always stationed in the guard house.
•	(m)	Point 13	Compressor Test Stand
			A stuccoed brick construction, 4x5x4 m, which had a flat roof. Two radial blowers were installed outside the building, as were two electromotors, of approximately 50 KW.
	(n)	Point 14	Storehouse
25X1 25X1	٠		A wooden structure, 6x12x4 m, which was one story high.
	(o)	Point 15	Prison
			The prison was a wooden barrack.
	(p)	Point 16	Storehouses
		Point 17	Each building was constructed of wood, 6x20x4 m, one story high and had a flat roof. Raw materials,
25X1		Point 18	turbine disks, etc were stored in these storehouses.
23/(1	(q)	Point 19	Ambulance
			This building, made of wood, 8x12x4 m, was one story high and had a gabled, shingled roof. The dispensary and dental clinic for the plant were housed at this point.

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		25X1 25X1
(r)	Point 20	Unknown Building
	25X1 25X1	This building was approximately 8x12x4 m
(a)	Point 21	Electro-Motor Repairshop
		A wooden construction; the size was approximately $5x8x4$ m.
(t)	Point 22	Repair Shop
	<b>.</b> .	A wooden construction, 5x8x4 m.
(u)	Point 23	<u>Fence</u>
		The boards were usually two and a half meters high; in some places they were four meters high. (The total fenced plant area was approximately 400x180 meters.)
(v)	Point 24	Watchtowers
		The watchtowers were wooden platforms, which were approximately four meters above the ground.
(w)	Point 25	Gasoline Storage Tank
		This storage tank had a pipeline leading under- ground to the test stand, point 2.
(x)	,Point 26	Small Repair Shop
		Measuring instruments were checked in this repair shop.
(y)	Point 27	Fire Station
		The fire station was equipped with one fire truck; this station was constructed of wood and was one story high.
(z)	Point 28	Air Compressor Station
		The air compressor station was a wooden building, $5x8x4$ m; the roof was of the gabled-type and was covered with sheet metal in 1950.
(aa)	Point 29	The Annealing Building
(bb)	Point 30	Forge
	25X1	in addition to the hardening furnaces, two pneumatic hammers and several friction presses, (of which only one was in operation), were installed
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A P	ower was d	rting and supply was done by truck. The electric irected from Kuibyshev by high voltage transmission

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25X1 25X1 25X1 25X1	lines on wooden towers.  The railroad nearest Uprawlentschesky was at Kuibyshev. The main roads within the plant were of gravel with asphalt or concrets surface and were usually sixeight meters wide. The machinery was generally kept in good condition.
3.	Labor Force
25X1	about 1000-1600 Soviets were employed at Zavod #2. Approximately 750 German specialists (this total includes about 200 of the Askania group) worked at the plant. The average salary paid the Germana ranged between Rubles 2000-4000 per month. The German personnel worked six days per week (48 hours) and were allowed 24 working days per year

vacation. (All German specialists chose to remain in

Germans. Occasional night shifts were worked in only a few installations.

Security Measures

(a) The Soviet administration used various methods to protect the work in ZAVOD #2 against sabotage or unauthorized entry. There were official security measures, such as guards, the plant secret service, and the individual obligation to secrecy. There was also the secret control of every individual through a widespread espionage system, in which some of the Germans were used.

Uprawlentschesky during their vacations despite the theoretical possibility of receiving permission to travel within the USSR.) The Soviet employees were paid a much lower wage than were the

- (b) The official security measures were under the general direction of Major Kolitschenko, who was the immediate supervisor of the plant commandant. Kolitschenko was the NKVD member who appeared publicly. The secret control consisted of certain persons who answered specific questions in writing and had to forward these reports at specified times to an agency. This latter measure, after it became known, was undoubtedly the most effective, because it created the feeling of suspicion against every "comrade".
- (c) Zavod #2 had a factory guard force under the plant commandant, Paschanoff. This force manned the cuter watchtowers day and night, furnished the guards for the plant entrance, and furnished guards for other particularly important parts of the plant, such as the test stands, the construction office, etc. Every worker had an identification card, which he received on entering the plant. The number of the identification card had to be given to the guards stationed just inside the entrance, upon which the guards would issue the proper identification card. Later on the guards gave the identification cards on the basis of personal recognition. Upon leaving the plant, the identification cards had to be returned to the guard. From the winter of 1949-50 on, the identification cards were exchanged at each work place for a pass which was valid only for that particular working place. Special card-holders were installed for this purpose; they were locked by the attendance checker at the beginning of the working day, and were opened only at the beginning of lunch hour and at the end of the workday.

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- (d) The identi The identification pard was a folded piece of cardboar covered with lines, and contained a photograph of the employee, the employee's identification number on both pages, the name of the employee, and an additional stamp for each different working place. The pass for the working place was a smooth single piece of cardboard with 25X1 photograph, name, identification number, and a stamp. the identification cards were renewed 25X1 Levery year.
  - (e) Special passes were necessary for the Construction Office building. Shop specialists and operational engineers were not admitted, with very rare exceptions. The pass had to be shown to the guard at the entrance to the building, without the guard asking for it. The Soviet plant manager and all other Soviet personnel had to follow the same procedure. Whenever another plant employee without the special pass for the Construction Office had to see a specialist there, the specialist was called out of the building by the guard. Employees of the Construction Office had entry to all shops except the main assembly hall, the test stands, the buildings for the Askania group, and the buildings for the inspection of materials; special passes were needed for these places.
  - All working data in the Construction Office, reports and designs, etc. were divided into secret and non-secret classifications. All data marked secret were kept in a separate archive, and were given out only against a receipt; they had to be returned during the lunch hour and at the end of working hours. All reports and designs which revealed measurements or specific data concerning Projects A, B, and C were classified and searches of employees leaving the plant were made at irregular intervals.
  - The engine test stands we a surrounded by special fences within the plant. The terminant fence was at least four meters high, so that the turboprop propellers could not be seen from the street. A guard was stationed at the entrance to the fenced-in test stand area; he stopped everybody and closely checked his pass and special stamp. There was no control in the test stand building itself.
- (h) For special tests, such as the State Test run, the assembly crew and the test stand workers were selected by name, and their identification cards were stamped with a special permit. The assembly of the engine, and any necessary reassembly or repair, was done under the supervision of the State Test run commission, Guards on the test stand were reinforced; however, the routine testing of other engines continued, but the entrance and exit to the test stand were heavily guarded. the single wheel test stand was

neavily guarded. completed in 1950, The tests themselves were conducted by Mr Wiemann. At this time did not have a pass for the engine test stand, where, in the first section, the single wheel test stand was 25X1 25X1 25X1 in the first section, the single wheel test stand was constructed. The German management made application to the plant guard force for pass, and secured a recommendation from the Soviet chief engineer. Inadvertently, the application was submitted during the State Test run. As a result, had to wait until the end of the State Test run before got my pass. in the USSR that most security measures were enforced not because of the project, but from extreme caution on the part of the responsible officials. in the USSR that

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responsible official.

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(i) In test operations, accidents are bound to happen in almost any development. Immediately, the word "sabotage" is used because it is one of the most common words in the Soviet vocabulary. In all the time in the USSR never learned of a case of premeditated sabotage. All of the Germans depended so much on the success of their work that none of them thought such an act. Once Mr Keummel summarized experience in the USSR in the following way: "Every change means a reprimand". To prevent accidental damage to the JUMO 022 unit, the blow-off air shafts, two tubes 100 mm in diameter, were equipped with mechanical filters. No other protective measures were known to me.

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ENCLOSURES: (A) Zavod #2

Page 1 - Layout

- (B) Design and Construction Office
- (C) Main Assembly Shop



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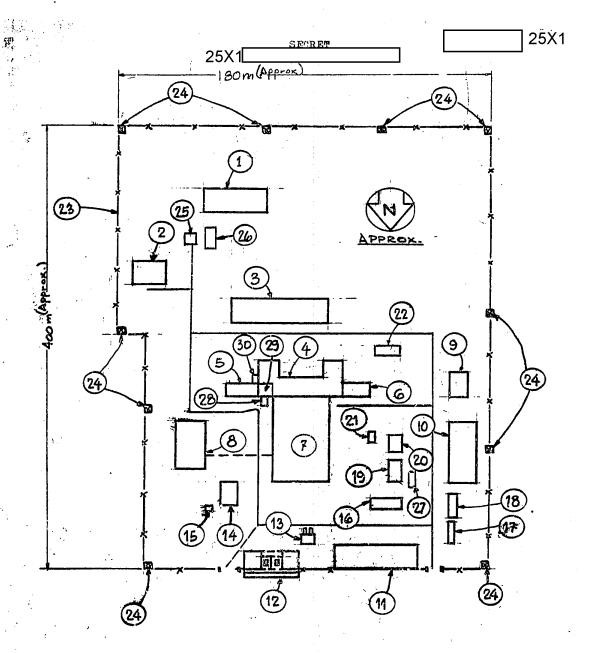
## LEGEND

- POINT 1: NEW TEST STAND BUILDING Started in 1946; still not operating in 1950.
- POINT 2: TEMPORARY TEST STAND Built in 1946
- POINT 3: DESIGN OFFICE
- POINT 4: ADMINISTRATION BUILDING, WORK PLANNING, PLANT MANAGER
- POINT 5: CARPENTRY SHOP
- POINT 6: TEST STANDS FOR EQUIPMENT (pumps, etc) AND COMBUSTION CHAMBERS
- POINT 7: MAIN ASSEMBLY SHOP
- POINT 8: SHEET METAL WORKSHOP
- POINT 9: HEATING PLANT
- POINT 10: ASKANIA SECTION
- POINT 11: METALLUNGY BUILDING
- POINT 12: ENTRANCE AND GUARD HOUSE
- POINT 13: COMPRESSON TEST STAND
- POINT 14: STOREHOUSE
- POINT 15: PRISON
- POINT 16: STOREHOUSE
- POINT 17: STOREHOUSE
- POINT 18: STOREHOUSE
- POINT 19: AMBULANCE GARAGE
- POINT 20: UNKNOWN
- POINT 21: ELECTRO-MOTOR REPAIR SHOP
- POINT 22: REPAIR SHOP BUILDING
- POINT 23: FENCE
- POINT 24: WATCHTOWERS
- POINT 25: GASOLINE STORAGE TANK
- POINT 26: SMALL REPAIR SHOP CHECKING OF MEASURING INSTRUMENTS
- POINT 27: FIRE STATION ONE VEHICLE
- POINT 28: AIR COMPRESSOR
- POINT 29: ANNEALING BUILDING
- POINT 30: FORGE

ENCLOSURE (A)

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of 2 pages.



ZAVOD #2

Layout

ENCLOSURE (A)

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